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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,540	02/21/2001	Shigeru Fujita	1484.1004	5606

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EXAMINER

MOSLEHI, FARHOOD

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 11/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/788,540

Applicant(s)

FUJITA, SHIGERU

Examiner

Farhood Moslehi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-5 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Domenikos et al. (5,838,916) (hereinafter Domenikos).

4. As per claim 1, Domenikos clearly explains a client / server system comprising:
A client having at least one I/O device (e.g. col. 19, lines 7-9); and a server for redirecting an event in the I/O device and directly controlling the I/O device (e.g. col. 19, lines 7-15).

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

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directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 3-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Wolff (6,185,601).

7. As per claim 3, Wolff teaches a server configured to redirect an event in an I/O device transmitted from a client side, and to directly controlling the I/O device (e.g. col. 53, lines 1-27).

8. As per claim 4, Wolff teaches a client comprising at least one I/O device, and configured to redirect an event in the I/O device to a server side (e.g. col. 53, lines 1-27).

9. As per claim 5, Wolff teaches the client further comprising at least one I/O port controlled by a device driver and connectable with an I/O device, and a device handler communicating with a virtual I/O port to control the I/O port, the virtual I/O port being included in a server to provide the device driver with a certain interface, transmit a control signal from the device driver and inform the device driver of a received event (e.g. col. 15, 52 lines 5-33, lines 35-65 respectively); wherein the event in the I/O device is redirected to the virtual I/O port of the server, and the I/O device of the client is directly controlled by the device driver of the server (e.g. col. 53, lines 1-27).

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Domenikos in view of Wolff (6,185,601).

12. As per claim 2, Domenikos teaches the client/server system comprising the server and the client (e.g. col. 3, lines 1-4); but Domenikos does not specifically teaches that the client/server system wherein a server side includes a device driver for controlling an I/O port on a client side, and a virtual I/O port for providing the device driver with an interface having the same function as the I/O port, transmitting a control signal from the device driver to the client side and informing the device driver of the event received from the client side; the client side includes at least one I/O port connectable with the I/O device, and a device handler for communicating with the virtual I/O port to control the I/O port; and the event in the I/O device on the client side is redirected to the virtual I/O port on the server side, and the device driver on the server side directly controls the I/O device. Wolff teaches about a client/server system wherein a server side includes a device driver for controlling an I/O port on a client side, and a virtual I/O port for providing the device driver with an interface having the same function as the I/O port, transmitting a control signal from the device driver to the client side and informing the device driver of the event received from the client side (e.g. col. 15, 52

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lines 6-23, lines 35-65 respectively); the client side includes at least one I/O port connectable with the I/O device, and a device handler for communicating with the virtual I/O port to control the I/O port (e.g. col. 15, lines 5-33); and the event in the I/O device on the client side is redirected to the virtual I/O port on the server side, and the device driver on the server side directly controls the I/O device (e.g. col. 53, lines 1-27). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Domienikos and Wolff. The motivation would have been for a client/server system to control and process all I/O processes for the client in order to balance and reduce the processing time of the client.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Farhood Moslehi whose telephone number is 703-305-8646. The examiner can normally be reached on M-F 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 703-305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5484.



fm

**JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
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